



# CITY COUNCIL

## AGENDA REQUEST

AGENDA OF:	10-05-10	AGENDA REQUEST NO:	V-G
INITIATED BY:	KEISHA E. SEALS ENGINEER III <i>KES</i>	RESPONSIBLE DEPARTMENT:	ENGINEERING
PRESENTED BY:	KEISHA E. SEALS ENGINEER III	DEPARTMENT HEAD:	CHRISTOPHER STEUBING, P.E., CITY ENGINEER <i>CLS</i>
		ADDITIONAL DEPARTMENT HEAD (S):	SUELLLEN STAGGS, DIRECTOR OF UTILITIES <i>smg</i>
SUBJECT / PROCEEDING:	AUSTIN PARKWAY WATER STORAGE TANK REHABILITATION, WA1004 AUTHORIZE CONSTRUCTION CONTRACT WITH TIDAL CONSTRUCTION		
EXHIBITS:	LOCATION MAP BID TABULATION AND RECOMMENDATION OF AWARD LETTER		
CLEARANCES		APPROVAL	
LEGAL:	N/A	EXECUTIVE DIRECTOR:	N/A
PURCHASING:	TODD REED, PURCHASING MANAGER <i>(P)</i>	ASST. CITY MANAGER:	KAREN DALY <i>kd</i>
BUDGET:	JENNIFER BROWN, <i>JB</i> BUDGET AND RESEARCH DIRECTOR	CITY MANAGER:	ALLEN BOGARD <i>Allen Bogard</i>
BUDGET			
EXPENDITURE REQUIRED: \$		293,600.00	
CURRENT BUDGET: \$		376,394.00 WA1004	
ADDITIONAL FUNDING: \$		N/A	
RECOMMENDED ACTION			
Authorize execution of a construction contract with Tidal Construction for the Austin Parkway Water Storage Tank Rehabilitation Project, CIP WA1004, in a maximum amount of \$293,600.00.			

## EXECUTIVE SUMMARY

A Preliminary Engineering Report (PER) was performed in June 2009 by Pate Engineers for the Austin Parkway Water Plant. This PER evaluated a number of items at the plant for possible rehabilitation including ground storage tanks, hydro-pneumatic tanks and existing infrastructure. The PER contained the results of an inspection and evaluation of two (2) 15,000 hydro-pneumatic tanks (HPTs) at Austin Parkway Plant. An updated study performed by Pate Engineers in June 2010 included the inspection and evaluation of the 427,000-gallon bolted steel ground storage tank (GST) at Austin Parkway Water Plant and one (1) 20,000 hydro-pneumatic tank (HPT) at First Colony Water Plant. In addition, the report included upgrades of 10-inch to 16-inch butterfly valves and the replacement of the existing concrete footings for the two (2) 15,000 HPT's.

Pate Engineers completed their analysis and the Invitation for Bids was advertised in August 2010. The elements included in the bid package included the following:

- Rehabilitation of Hydro-pneumatic tanks
- Ground storage tanks
- Alternates – 10 and 16 inch butterfly valves and the replacement of the existing concrete footings for the two HPT's.

Four bids were received on September 2, 2010 and prices ranged from \$293,600 to \$450,300. The lowest responsible bidder is Tidal Construction for \$293,600. The recommendation letter from Pate Engineers is included as an exhibit.

The engineer's probable construction cost estimate was around \$366,000. The low bid received was substantially lower than expected and provided a significant savings to the City by taking advantage of market conditions. Therefore, the alternative bid items will be included in the summary of work.

Funding for this project is in CIP WA1004, with an available balance of \$376,394.00. Notice to proceed is expected in October 2010. Substantial completion is 150 calendar days, followed by final completion within 30 calendar days.

The Engineering and Utilities Departments recommend that the City Council authorize the execution of a construction contract with Tidal Construction for the Austin Parkway Water Storage Tank Rehabilitation Project, CIP WA1004, in the amount of \$293,600.

## EXHIBITS

AUSTIN PARKWAY WATER PLANT REHAB PROJECT  
CIP NO.: WA1004





# PATE ENGINEERS

September 13, 2010

Mr. Christopher Steubing, P.E.  
City Engineer  
City of Sugar Land  
P. O. Box 110  
Sugar Land, Texas 77487-0110

Attention: Ms. Keisha Seals

Reference: Water Tank Rehabilitations and Replacements at the Austin Parkway and First Colony Water Plant; PATE Job No. 0509-047-01

Dear Mr. Steubing:

In accordance with your instructions, bids were opened and read on September 2, 2010, for construction of the above referenced project. Four bids were received for this project. A copy of the Bid Tabulation is attached.

We have examined the bids and find all of them to be complete and in order with the exception of minor mathematical errors which did not affect the outcome. The references and financial statements for Tidal Construction have been checked and are in order. We, therefore, recommend award of the contract to the low bidder, Tidal Construction, Inc. in the amount of \$293,600, broken down as follows:

Base Bid	\$275,600
Additive Alternative Bid Items	\$ 18,000
Total Amount Bid	\$293,600

If you have any questions or comments, please call.

Very truly yours,

**PATE ENGINEERS, INC.**

TPBE F-002726



Paul C. Wallick, P.E.  
Senior Project Manager

PCW/alb

J:\0500\050900000 Sugar Land\050904701 DESIGN Austin Pkwy & First Colony WP tank R&R\450 CPS\060 Corres\Recommendation of Award\REC\_AWARD\_austin pkwy.doc

cc: PATE CP File (B)

BID TAB  
CITY OF SUGAR LAND

WATER TANK REHABILITATIONS AND REPLACEMENTS  
AT THE AUSTIN PARKWAY AND FIRST COLONY WATER PLANTS

JOB NO. 0509-047-01, CONTRACT NO. 1  
Bids Opened: September 2, 2010 at 11:00 a.m.

				Tidal Construction, Inc.		W.W. Payton Corporation		Landmark Structures		TMI Coatings, Inc.	
Item No.	Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
AUSTIN PARKWAY ITEMS:											
1	1	L.S.	Furnish all Materials, Labor, Equipment and Appurtenances for Demolition of Two (2) 15,000-gallon Hydropneumatic Tanks (exclude Concrete Footings) including Appurtenances and Controls, Complete in Place:	\$10,000.00	\$10,000.00	\$4,000.00	\$4,000.00	\$7,800.00	\$7,800.00	\$16,700.00	\$16,700.00
2	2	EA.	Furnish all Materials, Labor, Equipment and Appurtenances for the Installation of Two (2) new 15,000-gallon Welded Steel Hydropneumatic Tanks on existing Concrete Footings including Saddle Supports, controls and Control Housing, connection to existing Air Piping, Inlet and Outlet Piping, and Appurtenances for a Complete Operational System, Complete in Place:	\$50,000.00	\$100,000.00	\$83,000.00	\$166,000.00	\$117,150.00	\$234,300.00	\$91,500.00	\$183,000.00
3	1	L.S.	Furnish all Material, Labor, Equipment and Superintendence for the Rehabilitation of a 0.427 million-gallon Bolted Galvanized Steel Ground Storage Tank (GST1) including but Not Limited to: Exterior Coatings Replacement, Repair of Interior Coatings with a 100% Epoxy Coating System (Approximately 2,000 sq. ft) and Tank Appurtenances, Complete in Place:	\$106,800.00	\$106,800.00	\$60,000.00	\$60,000.00	\$79,500.00	\$79,500.00	\$130,000.00	\$130,000.00
SUBTOTAL AUSTIN PARKWAY ITEMS:					\$216,800.00		\$230,000.00		\$321,600.00		\$329,700.00

\* = Bidder Mathematical Error

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				Tidal Construction, Inc.		W.W. Payton Corporation		Landmark Structures		TMI Coatings, Inc.	
Item No.	Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
FIRST COLONY ITEMS:											
4	1	L.S.	Furnish all Materials, Labor, Equipment and Superintendence for the Rehabilitation of a 20,000-gallon Hydropneumatic Tank, including Abrasive Blasting and Coating of Interior with a 100% Solids Epoxy Coating System and Coating Exterior with a Three-coat Epoxy Coating System, Complete in Place:	\$20,000.00	\$20,000.00	\$34,000.00	\$34,000.00	\$26,900.00	\$26,900.00	\$45,000.00	\$45,000.00
5	1	EA.	Furnish all Materials, Labor, Equipment and Superintendence for the Removal and Subsequent Expansion of a 11" x 15" Elliptical Manway into a 30" Diameter Manway including Reinforcing Steel Plate, Complete in Place:	\$8,000.00	\$8,000.00	\$6,000.00	\$6,000.00	\$19,400.00	\$19,400.00	\$7,500.00	\$7,500.00
SUBTOTAL FIRST COLONY ITEMS:				\$28,000.00		\$40,000.00		\$46,300.00		\$52,500.00	

TANK EXTRA WORK ITEMS:

6	200	LBS.	Furnish all Material, Labor, Equipment and Superintendence for Installation of Steel Fittings not otherwise Shown on Drawings, Complete in Place:	\$2.00	\$400.00	\$3.00	\$600.00	\$4.00	\$800.00	\$3.00	\$600.00
7	10	C.Y.	Furnish all Material, Labor, Equipment and Superintendence for Extra Class "A" Concrete including Reinforcing Steel "with Forms", Complete in Place:	\$300.00	\$3,000.00	\$200.00	\$2,000.00	\$400.00	\$4,000.00	\$500.00	\$5,000.00
8	40	L.F.	Furnish all Material, Labor, Equipment, and Appurtenances for "Extra Welding Repair, all Weld Sizes", Complete in Place:	\$12.50	\$500.00	\$10.00	\$400.00	\$15.00	\$600.00	\$25.00	\$1,000.00

\* = Bidder Mathematical Error

Item No.	Qty.	Unit	Description of Item with Unit Price Written in Words	Tidal Construction, Inc.		W.W. Payton Corporation		Landmark Structures		TMI Coatings, Inc.	
				Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
9	40	M.H.	Furnish Certified Welder and Welding Equipment to Perform Miscellaneous Welding for "Extra Welding Man-Hours", Complete in Place:	\$75.00	\$3,000.00	\$60.00	\$2,400.00	\$80.00	\$3,200.00	\$100.00	\$4,000.00
10	40	M.H.	Furnish Welder Apprentice and Welding Equipment to Perform Miscellaneous Welding for "Extra Welding Man-Hours", Complete in Place:	\$40.00	\$1,600.00	\$40.00	\$1,600.00	\$75.00	\$3,000.00	\$75.00	\$3,000.00
11	20	M.H.	Furnish Blaster/Painter and Equipment to Perform Miscellaneous Blasting/Painting for "Extra Blaster/Painter Man-Hours", Complete in Place:	\$250.00	\$5,000.00	\$60.00	\$1,200.00	\$150.00	\$3,000.00	\$75.00	\$1,500.00
12	20	GAL.	Furnish Labor, Equipment, and Material for Installation of Epoxy Caulking at Badly Pitted Surfaces, Complete in Place:	\$200.00	\$4,000.00	\$200.00	\$4,000.00	\$200.00	\$4,000.00	\$150.00	\$3,000.00
13	1,000	LBS.	Furnish all Material, Labor, Equipment, and Appurtenances for "Extra Structural Members and all Supporting Structures, all Shapes, all Sizes including Removal and Disposal of Old Members", Complete in Place:	\$12.50	\$12,500.00	\$3.00	\$3,000.00	\$5.00	\$5,000.00	\$3.00	\$3,000.00
14	20	L.F.	Furnish all Material, Labor, Equipment and Appurtenances for installation of Extra Roof Handrails for Ground Storage Tank including Bolts and Gaskets, Complete in Place:	\$40.00	\$800.00	\$40.00	\$800.00	\$50.00	\$1,000.00	\$75.00	\$1,500.00
SUBTOTAL TANK EXTRA WORK ITEMS:					\$30,800.00		\$16,000.00		\$24,600.00		\$22,600.00
TOTAL AMOUNT BASE BID					\$275,600.00		\$286,000.00		\$392,500.00 *		\$404,800.00

\* = Bidder Mathematical Error

				Tidal Construction, Inc.		W.W. Payton Corporation		Landmark Structures		TMI Coatings, Inc.	
Item No.	Qty.	Unit	Description of Item with Unit Price Written in Words	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
ADDITIVE ALTERNATE BID ITEMS:											
15	1	EA.	Furnish all Material, Labor, Equipment and Appurtenances for a 10-inch Butterfly Valve, Complete in Place:	\$1,100.00	\$1,100.00	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00	\$7,500.00	\$7,500.00
16	1	EA.	Furnish all Material, Labor, Equipment and Appurtenances for a 12-inch Butterfly Valve, Complete in Place:	\$1,300.00	\$1,300.00	\$2,200.00	\$2,200.00	\$3,200.00	\$3,200.00	\$8,000.00	\$8,000.00
17	1	EA.	Furnish all Material, Labor, Equipment and Appurtenances for a 16-inch Butterfly Valve, Complete in Place:	\$2,600.00	\$2,600.00	\$3,000.00	\$3,000.00	\$4,300.00	\$4,300.00	\$10,000.00	\$10,000.00
18	1	L.S.	Furnish all Materials, Labor, Equipment and Appurtenances for Demolition and Replacement of existing Concrete Footings for Two (2) 15,000-gallon Hydropneumatic Tanks at Austin Parkway Water Plant, Complete in Place:	\$13,000.00	\$13,000.00	\$12,800.00	\$12,800.00	\$45,500.00	\$45,500.00	\$20,000.00	\$20,000.00
SUBTOTAL ADDITIVE ALTERNATE BID ITEMS:					\$18,000.00		\$20,000.00		\$56,000.00		\$45,500.00
TOTAL AMOUNT ALTERNATE BID					\$293,600.00		\$306,000.00		\$448,500.00	*	\$450,300.00

\* = Bidder Mathematical Error